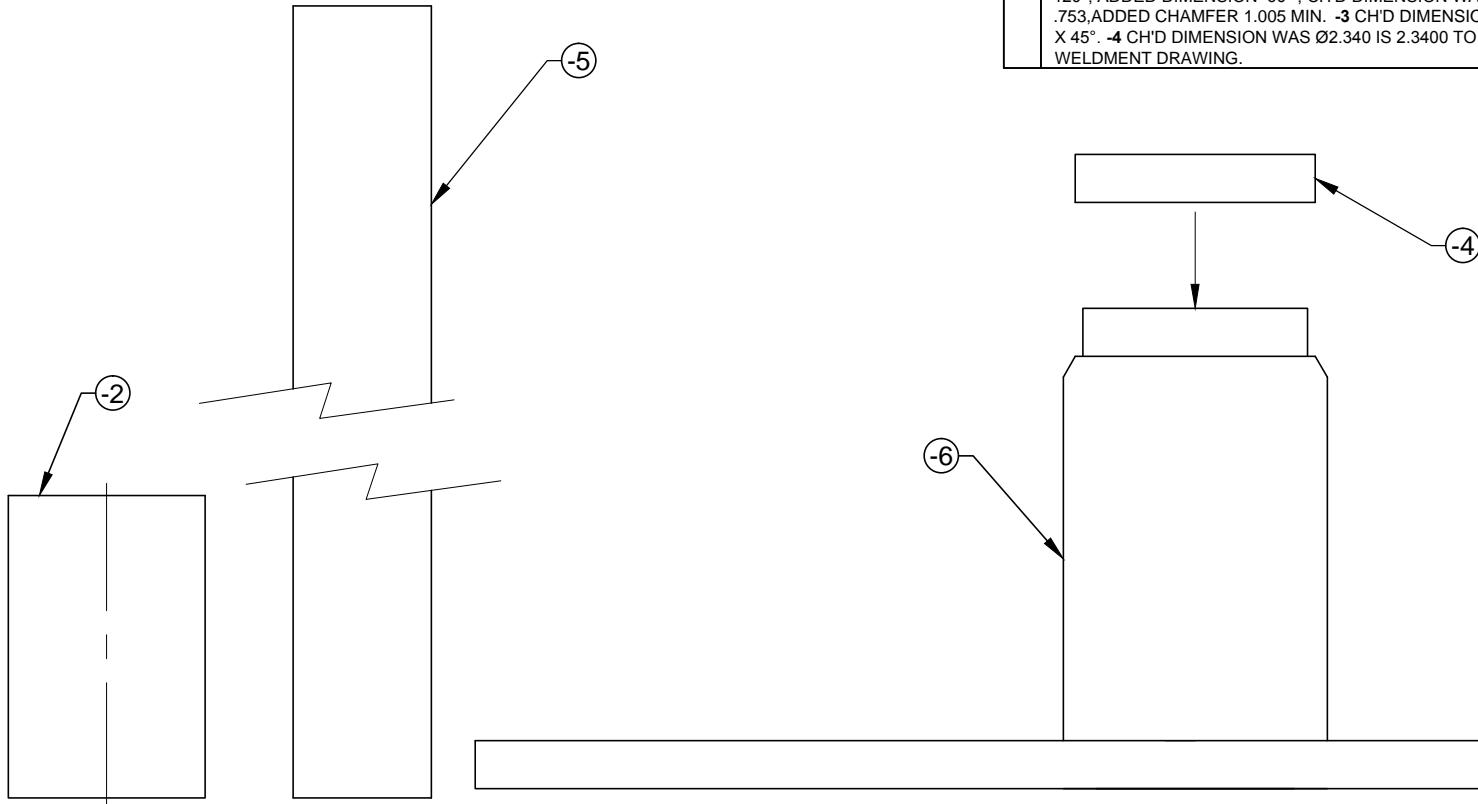


This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REV	DESCRIPTION	REVISIONS		
		DATE	INITIAL	APPROVED
1	CH'D P/N FROM 369 TO RB, ALSO CH'D OUTSIDE DIA. FROM 3.75, AND EACH HANDLE LENGTH FROM 4.75.	3/28/06	-	
1A	CH'D TITLEBLOCK & REVISION BLOCK,	12/28/09	RJC	
2	CH'D TITLEBLOCKS FROM RB TO DART. REMOVED TORQUE WRENCH FROM B/O, -1 CH'D DIMENSION WAS Ø2.340 IS 2.3420 TO 2.3427, CH'D DIMENSION WAS .10 CHAMFER IS .10 X 45°, CH'D DIMENSION WAS .13 CHAMFER IS .13 X 45°. -2 CH'D B/O WAS Ø 2-1/8 X 3-3/8 IS Ø2-1/4 X 3-3/8, CH'D DIMENSION WAS R1.0 IS 120°, ADDED DIMENSION 60°, CH'D DIMENSION WAS .75 SQ. IS 2X .758 TO .753, ADDED CHAMFER 1.005 MIN. -3 CH'D DIMENSION WAS 1/8 CHAMFER IS .13 X 45°. -4 CH'D DIMENSION WAS Ø2.340 IS 2.3400 TO 2.3412. -6 ADDED WELDMENT DRAWING.	6/20/14	DJN	RJC



ASSY	ASSY	QTY	B/O	PART #	QTY	DESCRIPTION	MATERIAL	B/O INFORMATION OR SPECIFICATIONS	Pg.
		1		-1		WRENCH-NUT	4140	Ø2-3/4 X 5-1/8	2
				-2	1	WRENCH- SPLINE	4140	Ø2-1/4 X 3-3/8	3
1				-3		HANDLE	1018	1/2 X 4 X 15-1/2	4
				-4	1	BUSHING	1018	Ø2-1/2 OD X 5/8 X 1/8 WALL	5
				-5	1	BAR	CDS TUBING	Ø1-7/16 OD X 30 X .157 WALL	6
X				-6	1	HANDLE WELDMENT			7
	B/O				1	SQUARE DRIVE ADAPTER		3/4 MALE X 1/2 FEMALE (CRAFTSMAN #4271 OR SNAP-ON #GLA12B OR EQUIV.)	N/S
ASSY									SCALE
-6									1:2

DART
AEROSPACE

TITLE BARREL WRENCH SET

DWG NO. RBT5100-ATP-1 **REV** 2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES ON: DECIMALS .XXX ± .010 FRACTIONS ± 1/32 XX ± .03 ANGLES ± .5° X ± .1

UNLESS OTHERWISE SPECIFIED

1. BREAK ALL SHARP EDGES .015 X 45° PR .015 R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING

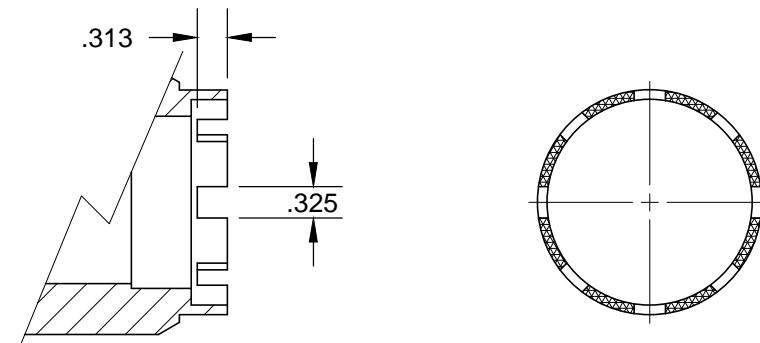
USED ON MODEL

MD

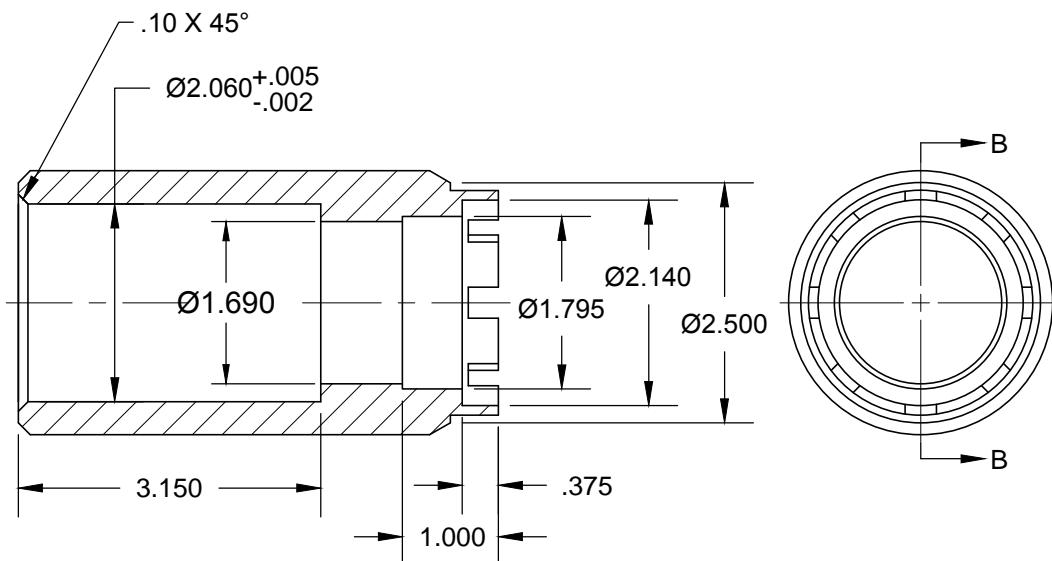
SCALE 1:2 DATE 5-28-03 SHEET 1 of 7

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REV		DESCRIPTION		DATE	INITIAL APPROVED
2		-1 CH'D DIMENSION WAS $\varnothing 2.340$ IS 2.3420 TO 2.3427, CH'D DIMENSION WAS .10 CHAMFER IS .10 X 45°, CH'D DIMENSION WAS .13 CHAMFER IS .13 X 45°.		6/20/14	DJN RJC



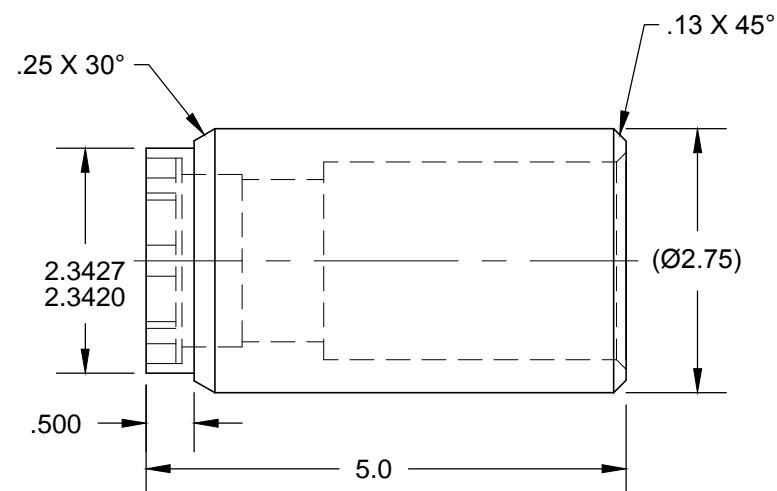
CUT 8 SLOTS AS SHOWN
EQUALLY SPACED



SECTION B-B

WRENCH-NUT

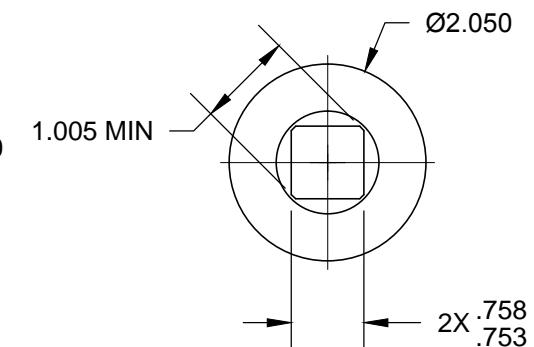
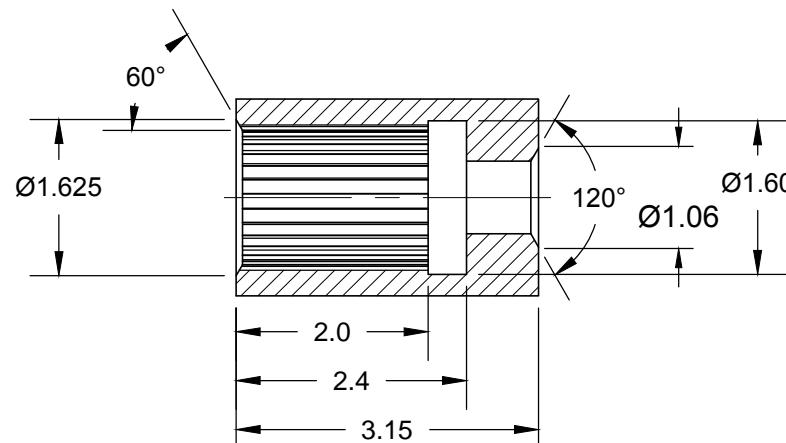
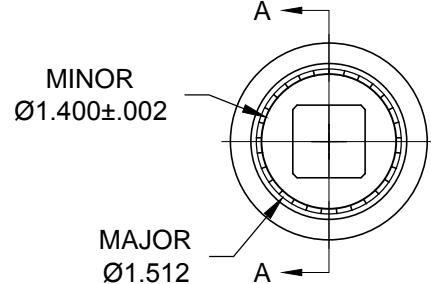
-1



DART AEROSPACE	
TITLE	
BARREL WRENCH SET	
DWG NO.	REV
RBT5100-ATP-1-1	
2	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS	FRACTIONS $\pm 1/32$
XXX $\pm .010$	
XX $\pm .03$	ANGLES $\pm .5^\circ$
X $\pm .1$	
APPROVED	
HEAT TREAT	
FINISH SEE -6 WELDMENT	
SPEC	
USED ON MODEL	
MD	
SCALE	1:2
DATE	6-4-03
SHEET	2 of 7

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REV		DESCRIPTION		DATE	INITIAL APPROVED
2		-2 CH'D DIMENSION WAS R1.0 IS 120°, ADDED DIMENSION 60°, CH'D DIMENSION WAS .75 SQ. IS 2X .758 TO .753, ADDED CHAMFER 1.005 MIN.		6/20/14	DJN RJC



SPLINE DATA

TYPE	INTERNAL
NO. OF TEETH	29
PITCH	20/40
PRESSURE ANGLE	30°
MAJOR DIAMETER	Ø 1.512
MINOR DIAMETER	Ø1.400±.002
DIAMETER OVER .080 PINS	Ø1.349-1.355

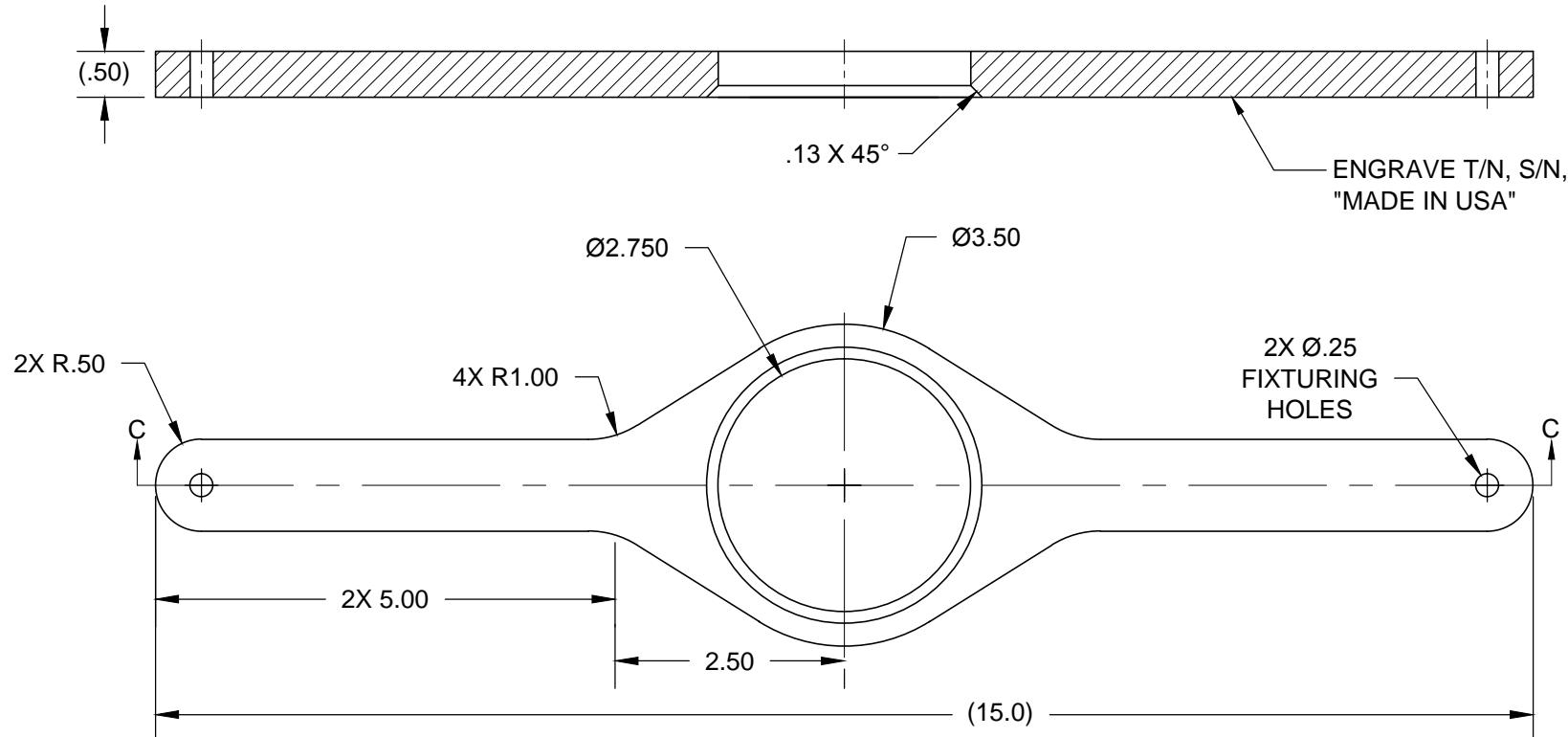
(-2)
WRENCH-SPLINE

DART AEROSPACE	
TITLE	BARREL WRENCH SET
DWG NO.	RBT5100-ATP-1-2
REV	2
UNLESS OTHERWISE SPECIFIED	DRAWN BY: COLE
DIMENSIONS ARE IN INCHES	APPROVED: D. Weil
TOLERANCES ON:	HEAT TREAT
DECIMALS .XXX ± .010	FINISH BLACK OXIDE
XX ± .03	ANGLES ± .5°
X ± .1	SPEC
UNLESS OTHERWISE SPECIFIED	USED ON MODEL
1. BREAK ALL SHARP EDGES .015 x 45° PR. .015 R	MD
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:2	DATE 5-28-03
	SHEET 3 of 7

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	CH'D P/N FROM 369 TO RB, ALSO CH'D OUTSIDE DIA. FROM 3.75, AND EACH HANDLE LENGTH FROM 4.75.	3/28/06	-	
2	-3 CH'D DIMENSION WAS 1/8 CHAMFER IS .13 X 45°.	6/20/14	DJN	RJC

SECTION C-C

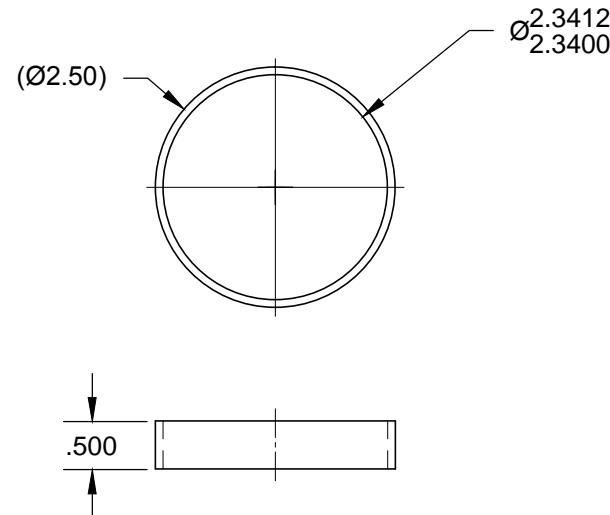


-3
HANDLE

DART AEROSPACE	
TITLE	BARREL WRENCH SET
DWG NO.	RBT5100-ATP-1-3
REV 2	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS $XXX \pm .010$ FRACTIONS $\pm 1/32$ $XX \pm .03$ ANGLES $\pm 5^\circ$ $X \pm .1$	
DRAWN BY: COLE APPROVED <i>D. Miller</i> HEAT TREAT FINISH SEE -6 WELDMENT SPEC USED ON MODEL MD	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES $.015 \times 45^\circ$ PR. 015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE	1:2
DATE	6-4-03
SHEET 4 of 7	

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REV		DESCRIPTION		DATE	INITIAL APPROVED
2		-4 CH'D DIMENSION WAS Ø2.340 IS 2.3400 TO 2.3412.		6/20/14	DJN RJC

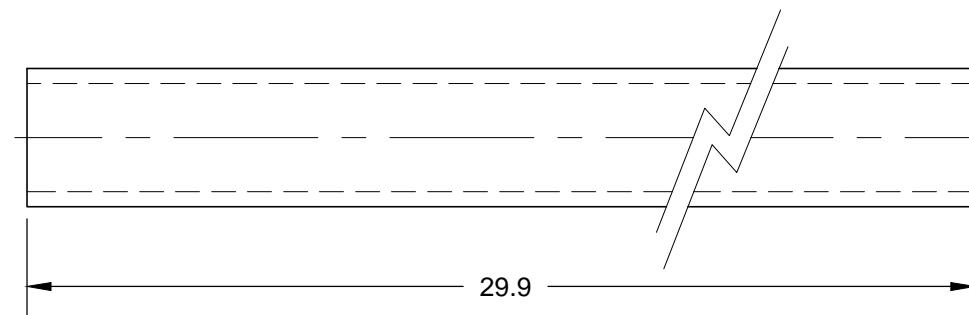
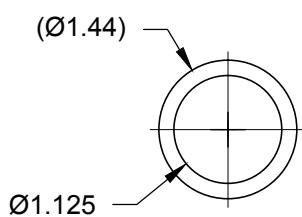


(-4)
BUSHING

DART AEROSPACE		
TITLE BARREL WRENCH SET		
DWG NO. RBT5100-ATP-1-4 REV 2		
UNLESS OTHERWISE SPECIFIED DRAWN BY: COLE		
DIMENSIONS ARE IN INCHES		
TOLERANCES ON: APPROVED D. Weil		
DECIMALS		
XXX \pm .010	FRACTIONS \pm 1/32	
XX \pm .03	ANGLES \pm 5°	
X \pm .1		
HEAT TREAT		
FINISH BLACK OXIDE		
SPEC		
USED ON MODEL		
MD		
SCALE 1:2	DATE 5-28-03	SHEET 5 of 7

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REV		DESCRIPTION		DATE	INITIAL	APPROVED

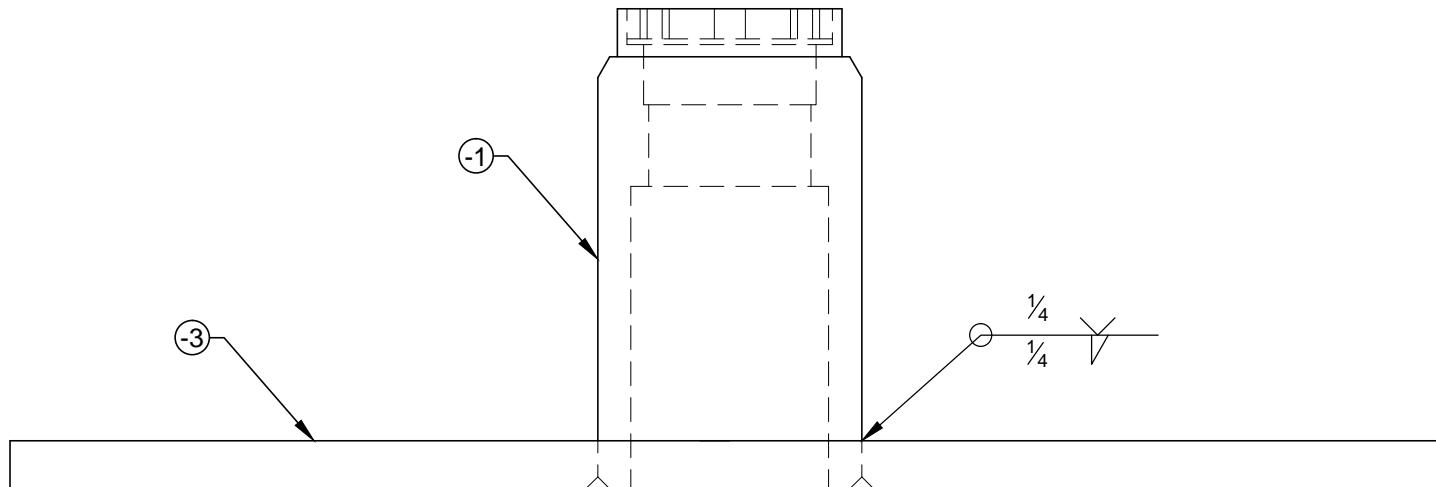


(-5)
BAR

DART AEROSPACE		
TITLE BARREL WRENCH SET		
DWG NO. RBT5100-ATP-1-5 REV 2		
UNLESS OTHERWISE SPECIFIED DRAWN BY: COLE		
DIMENSIONS ARE IN INCHES		
TOLERANCES ON: APPROVED D. Weil		
DECIMALS HEAT TREAT		
XXX ± .010	FRACTIONS ± 1/32	
XX ± .03	ANGLES ± .5°	
X ± .1		
SPEC		
UNLESS OTHERWISE SPECIFIED USED ON MODEL		
1. BREAK ALL SHARP EDGES .015 x 45° PR. .015 R		
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		
MD		
SCALE 1:2	DATE 5-28-03	SHEET 6 of 7

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REV	DESCRIPTION	DATE	INITIAL APPROVED
2	-6 ADDED WELDMENT DRAWING.	6/20/14	DJN RJC



-6
HANDLE WELDMENT

DART	
AEROSPACE	
TITLE	
BARREL WRENCH SET	
DWG NO. RBT5100-ATP-1-6	
REV 2	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS .XXX ± .010	
XX ± .03	
X ± .1	
FRACTIONS ± 1/32	
ANGLES ± 5°	
DRAWN BY: COLE	
APPROVED D. Weil	
HEAT TREAT	
FINISH BLACK OXIDE	
SPEC	
USED ON MODEL	
MD	
SCALE	1:2
DATE	5-28-03
SHEET	7 of 7